



# DTR410™

## Digital On-Site Two-Way Radio



900 MHz ISM **license-free band**

**Digital one-to-many group call**

**Frequency hopping spread spectrum (FHSS)**

**Private Call**—to talk privately with a specific user's radio

**Public-group calling**—up to 25 groups or "channels" can be added to the contact list

**SMS Messaging**—10 Quick Notes (20 available)

**Battery Life 14.5 hours** (5/5/90)

**Scroll List**—to quickly access group or private contacts

**Lithium ion battery**—up to 14.5 hours of operation per full charge

3-hour **desktop charger** included

**Swivel carry holster**

**Public group call name aliasing**—rather than numbers for increased ease-of-use (optional Programming Software or Mini Keyboard required)

Rugged, compact **polycarbonate housing** with rubber overmold for comfort—5.2" H x 2.3" W x 1.4" D

**Meets military 810 C, D, E, and F specifications** for shock, vibration, water, dust and temperature extremes

2-pin **audio accessory jack** with captive connector cover

**Connector programming interface** with captive connector cover

**Full-graphic backlit display** with contrast adjustment and backlight timer

**Clock/alarm**

**Caller ID**—indicates both transmitting radio ID or name and call type

**Remote Disable**—to deactivate a radio over-the-air for increased fleet maintenance

**Remote Monitor**—allows you to key up a radio's microphone remotely for emergency situations or employee monitoring

**Remote Time**

**Recent call list**—last 20 transmissions

Up to **100-unit contact list** (shared group/private)

**Unit-to-unit configuration cloning** (via optional Cloning Cable)

**Coverage of up to 300,000 sq. ft.** or 25 floors\*

### The Digital Difference

What makes the DTR410 perfect for your on-site operation? Digital technology. It enables coverage extended by 20%.\* Up to 45% longer operation on a single charge.\* And digital audio quality—which stays loud and clear everywhere you have coverage.

Each unit has its own unique 11-digit identification, bringing you new group calling options:

#### DIGITAL ONE-TO-ONE CALLING

Allows you to call and talk privately with a specific user's radio. A private-call recipient can receive an alert, and the recipient's radio displays the caller's ID.

#### DIGITAL ONE-TO-MANY CALLING

Public group call—all other DTR Series™ radios on the same group ID and channel hear communications, similar to analog radios.

\*Coverage will vary based on terrain and conditions. All comparison claims made against Motorola CP100/XU2600 analog radio models. High capacity battery used.

## General Specifications

	DTR410
Frequency	900 MHz ISM FHSS
Contact List Capacity	Up to 100-unit contact list (shared group/private)
Default Programming	20 Public Groups
Power Supply	3.8V $\pm$ 0.4V
Dimensions	132.3mm H x 57.2mm W x 35.4mm D (5.2" H x 2.3" W x 1.4" D)
Weight: with 1200 mAh Lilon Battery with 1500 mAh Lilon Battery	200.2g (7.1oz.) 205.7g (7.3oz.)
Average Battery Life @ 5-5-90 Duty Cycle: with 1200 mAh Lilon Battery with 1500 mAh Lilon Battery	14.5 Hrs. 19 Hrs.
FCC Description	AZ489FT5842
IC Description	109U-89FT5842

## Receiver

Sensitivity: (3% BER Sensitivity)	-125 dBm
Frequency Stability: (-30° C to +60° C)	$\pm$ 0.0005% ( $\pm$ 5PPM)
Spur Rejection	55 dB
Blocking Immunity: (Interferer from $\pm$ 500 kHz to $\pm$ 1 MHz) (Interferer from $\pm$ 1MHz to $\pm$ 15 MHz)	75 dB 80 dB
Audio Output @ < 5% Distortion	1W

## Transmitter

RF Output	1W
Channel Spacing	50 kHz
Frequency Stability: (-30° C to +60° C)	$\pm$ 0.0005% ( $\pm$ 5PPM)
Spurs/Harmonics	500 $\mu$ V/m (3m)
Audio Response: (from 6 dB/oct. Preemphasis, 300 to 3000 Hz)	+1, -3 dB
Audio Distortion @ 1000 Hz, 60% Rated Max. Dev.	<3%
TX ACCPR	-50 dBc
FCC Modulation	8-level FSK 900 MHz ISM FHSS

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Specifications subject to change without notice. All specifications shown are typical.  
Radio meets applicable regulatory requirements.  
11/07



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MDD/DTR410SPEC